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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/981,331	10/16/2001	Elwood G. Norris	T6446.CIP2	4982
7590	11/02/2004		EXAMINER	
Steve M. Perry THORPE, NORTH & WESTERN, L.L.P. P.O. Box 1219 Sandy, UT 84091-1219			LE, HUYEN D	
			ART UNIT	PAPER NUMBER
			2643	

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/981,331	NORRIS ET AL.
	Examiner	Art Unit
	HUYEN D. LE	2643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 August 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-40 is/are pending in the application.
 4a) Of the above claim(s) 1-33,39 and 40 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 34-38 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) 1-33,39 and 40 are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>01/29/02</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Election/Restrictions

1. This application contains claims 1-33 and 39-40 drawn to an invention nonelected with traverse in Paper filed 08/09/2004. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 34-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Selfridge (U.S. patent 6,011,855).

Regarding claims 34-37, Selfridge teaches a method for generating parametric audio output based on interaction of multiple ultrasonic output within air as a nonlinear medium (see the abstract). The method comprises the steps of generating an electronic signal that comprises at least two ultrasonic signal, transferring the electronic signal to an emitter diaphragm, converting the electronic signal at the diaphragm, and mechanically emitting the at least two ultrasonic signals from the diaphragm into the air as ultrasonic compression waves as claimed (col. 1, lines 32-37, col. 2, lines 17-25, col. 9, lines 7-26).

Selfridge does not specifically teach the emitter diaphragm that is an electret or electrostatic type as claimed. However, it would have been obvious to one skilled in the art to provide any type of transducer such as the electret or electrostatic type for greater application of providing different types of transducer to the Selfridge system.

Regarding claim 38, Selfridge does not specifically teach a plastic diaphragm for the electrostatic type. However, the examiner takes the Office Notice that providing a plastic diaphragm in the electrostatic transducer is known in the art.

Therefore, it would have been obvious to one skilled in the art to provide a plastic diaphragm for the emitter diaphragm of Selfridge for providing a better electrostatic transducer.

Response to Arguments

4. Applicant's election with the arguments of claims 32-33 in the reply filed on August 9, 2004 is acknowledged. The arguments are on the ground(s) that claims 32-33 drawn to a method for generating parametric audio output that is the same group with claims 34-38. This is not found persuasive because claims 32 and 33 are claiming the apparatus and method of a speaker

device that comprises a specific construction of the support or the foam member, the film application means, insulating means and biasing means.

The requirement is still deemed proper and is therefore made FINAL.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUYEN D. LE whose telephone number is (703) 305-4844. The examiner can normally be reached on 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CURTIS KUNTZ can be reached on (703) 305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


HL
October 29, 2004


HUYEN LE
PRIMARY EXAMINER